Test Report
Gradation test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/02
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	3
Date	22-May-2018

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	of weight Retained (%)	ive Percentage of	Passing		Remarks
					Test Result	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	512	12.80	12.80	87.20	85-95	
3	19.00	330	8.25	21.05	78.95	68-88	
4	9.50	625	15.63	36.68	63.33	45-65	
5	4.75	412	10.30	46.98	53.03	30-55	
6	0.60	900	22.50	69.48	30.53	8-30	
7	0.15	845	21.13	90.60	9.40	5-15	
8	0.08	260	6.50	97.10	2.90	0-5	

Note:

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iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Water absorption test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/02
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	12-May-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in	W_2g	2032	2048	
3	Weight of Saturated Aggregate in water	$W_s g = W_2 - W_1$	1271	1285	
4	dry aggregate in Air	W_3 g	2067	2073	
5	Volume of the Aggregate	$W_3 - W_s$	796	788	
6	Aggregate	W_4g	2028	2044	
7	Specific Gravity	$W_4/(W_3 - W_s)$	2.55	2.59	2.57
8	Apparent Specific Gravity	$W_4/(W_4 - W_s)$	2.68	2.69	2.69
9	Water Absorption	$(W_4 - W_3)*100/W_4$	1.92	1.42	1.67

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Water absorption test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	2
Date	18-May-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Immersed in Water	W_1 g	765	765	
2	Aggregates Immersed in	W_2g	2035	2030	
3	Weight of Saturated Aggregate in water	W_sg = W_2- W_1	1270	1265	
4	dry aggregate in Air	W_3 g	2070	2055	
5	Volume of the Aggregate	W_3- W_s	800	790	
6	Aggregate	W_4g	2031	2026	
7	Specific Gravity	W_4/(W_3- W_s)	2.54	2.56	2.55
8	Apparent Specific Gravity	W_4/(W_4- W_s)	2.67	2.66	2.67
9	Water Absorption	(W_4--W_3)*100/ W_4	1.92	1.43	1.68

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Water absorption test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregates
Sample No	3
Date	20-May-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Immersed in Water	W_1 g	761	763	
2	Aggregates Immersed in	W_2g	2050	2070	
3	Weight of Saturated Aggregate in water	W_sg = W_2- W_1	1289	1307	
4	dry aggregate in Air	W_3 g	2085	2095	
5	Volume of the Aggregate	W_3- W_s	796	788	
6	Aggregate	W_4g	2046	2066	
7	Specific Gravity	W_4/(W_3- W_s)	2.57	2.62	2.60
8	Apparent Specific Gravity	W_4/(W_4- W_s)	2.70	2.72	2.71
9	Water Absorption	(W_4- W_3)*100/ W_4	1.91	1.4	1.66

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Impact test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse aggregates
Sample No	1
Date	12-May-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1303	1307
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	343	347
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	77	76
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	266	271
6	Aggregate Impact Value (w4 / w3)x100	%	22.45	21.90
7	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **22.18** %

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/02
Mix Type	Cement Concrete (1:2:4)
Contractor	Sri A Chennareddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	1
Date	15-Jun-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	7.03	150*150*150	2082.96	273.00	0.0225	12.13	12.28	12.16
2	20	7	7.06	150*150*150	2091.85	285.00	0.0225	12.67		
3	20	7	7.21	150*150*150	2136.30	271.00	0.0225	12.04		
4	20	7	7.05	150*150*150	2088.89	266.00	0.0225	11.82	12.03	
5	20	7	7.01	150*150*150	2077.04	265.00	0.0225	11.78		
6	20	7	7.07	150*150*150	2094.81	281.00	0.0225	12.49		

Results: 7-days Compressive strength of cement is 12.16 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/02
Mix Type	Cement Concrete (1:2:4)
Contractor	Sri A Chennareddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	2
Date	15-Jun-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	7.13	150*150*150	2112.59	275.00	0.0225	12.22	12.37	12.24
2	20	7	7.16	150*150*150	2121.48	287.00	0.0225	12.76		
3	20	7	7.31	150*150*150	2165.93	273.00	0.0225	12.13		
4	20	7	7.15	150*150*150	2118.52	268.00	0.0225	11.91	12.12	
5	20	7	7.11	150*150*150	2106.67	267.00	0.0225	11.87		
6	20	7	7.17	150*150*150	2124.44	283.00	0.0225	12.58		

Results: 7-days Compressive strength of cement is 12.24 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/02
Mix Type	Cement Concrete (1:2:4)
Contractor	Sri A Chennareddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	3
Date	15-Jun-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7.00	6.84	150*150*150	2026.67	269.00	0.0225	11.96	12.10	11.98
2	20	7.00	6.87	150*150*150	2035.56	281.00	0.0225	12.49		
3	20	7.00	7.02	150*150*150	2080.00	267.00	0.0225	11.87		
4	20	7.00	6.86	150*150*150	2032.59	262.00	0.0225	11.64	11.85	
5	20	7.00	6.82	150*150*150	2020.74	261.00	0.0225	11.60		
6	20	7.00	6.88	150*150*150	2038.52	277.00	0.0225	12.31		

Results: 7-days Compressive strength of cement is 11.98 N/mm2

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/02
Mix Type	Cement Concrete (1:2:4)
Contractor	Sri A Chennareddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	4
Date	19-Jun-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	6.94	150*150*150	2056.30	271.00	0.0225	12.04	12.19	12.07
2	20	7	6.97	150*150*150	2065.19	283.00	0.0225	12.58		
3	20	7	7.12	150*150*150	2109.63	269.00	0.0225	11.96		
4	20	7	6.96	150*150*150	2062.22	264.00	0.0225	11.73	11.94	
5	20	7	6.92	150*150*150	2050.37	263.00	0.0225	11.69		
6	20	7	6.98	150*150*150	2068.15	279.00	0.0225	12.40		

Results: 7-days Compressive strength of cement is 12.07 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/02
Mix Type	Cement Concrete (1:2:4)
Contractor	Sri A Chennareddy
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	5
Date	19-Jun-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	7.03	150*150*150	2082.96	273.00	0.0225	12.13	12.28	12.16
2	20	7	7.06	150*150*150	2091.85	285.00	0.0225	12.67		
3	20	7	7.21	150*150*150	2136.30	271.00	0.0225	12.04		
4	20	7	7.05	150*150*150	2088.89	266.00	0.0225	11.82	12.03	
5	20	7	7.01	150*150*150	2077.04	265.00	0.0225	11.78		
6	20	7	7.07	150*150*150	2094.81	281.00	0.0225	12.49		

Results: 7-days Compressive strength of cement is 12.16 N/mm2

Note:

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Project Division
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